What is Claimed is:

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A method for testing a communication network, comprising:
 transmitting a first signal from a first point to a second point of said
 communication network, wherein said first and said second points are remotely
 located;

recording a first time value of said transmitting using a first clock;
receiving a second signal at said second point of said communication network;
and

recording a second time value of said receiving using a second clock, wherein said first clock and said second clock operate from a substantially similar reference.

- 2. The method of claim 1, further comprising comparing said first signal and said second signal as a function of said first and second time values.
- 3. The method of claim 2, further comprising determining at least one performance characteristic of said communication network based on said comparing.
- 4. The method of claim 3, wherein said performance characteristic includes at least one of the following: signal delay, signal distortion, signal duplication, signal intensity, and signal-to-noise ratio.

- 5. The method of claim 1, further comprising generating a reference signal using a Stratum-2 oscillator.
- 6. The method of claim 5, further comprising providing said reference signal to said first and second clocks.
- 7. The method of claim 1, wherein said first point of said communication network is a customer premise equipment.
- 8. The method of claim 1, wherein said second point of said communication network is a customer premise equipment.
- 9. The method of claim 1, wherein said first point of said communication network is a device within a first central office.
- 10. The method of claim 1, wherein said second point of said communication network is a device within a second central office.
- 11. The method of claim 1, further comprising receiving a clock signal at said first and second clocks.

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12. The method of claim 11, wherein said clock signal is received from a satellite.

13. A system for testing a communication network, comprising:

a signal generator for providing a first signal to said communication network;

a first clock device coupled to said signal generator, wherein said first clock

device records a first time said first signal is provided to said communication network;

a signal receiver for receiving a second signal from said communication network;

and

a second clocking device coupled to said signal receiver, wherein said second clock device records a second time said second signal is received from said communication network;

wherein said first and second clocking devices operate from a substantially similar reference.

- 14. The system of claim 13, further comprising a clock signal in communication with said first and second clocking devices such that said first and second clocking devices operate from a substantially similar reference.
- 15. The system of claim 14, further comprising a first satellite receiver in communication with said first clock, and a second satellite receiver in communication with said

second clock, wherein said satellite receivers receive said clock signal from a satellite.

- 16. The system of claim 13, wherein said first and second clocking devices exhibit long-term frequency stability characteristics at least as good as a Stratum-2 level.
- 17. The system of claim 13, further comprising a first customer premise equipment in communication with said signal generator and said communication network.
- 18. The system of claim 13, further comprising a second customer premise equipment in communication with said signal receiver and said communication network.
- 19. The system of claim 13, further comprising a first central office device in communication with said signal generator and said communication network.
- 20. The system of claim 13, further comprising a second central office device in communication with said signal receiver and said communication network.

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